- 43 -

ABSTRACT OF THE DISCLOSURE

In a communicating method between data processing apparatuses using the Sockets API or the MPI API, the apparatus on the receiving side informs the apparatus on the sending side of a data length threshold, which makes the apparatus on the sending side to decide between sending data to a pre-registered pre-allocated buffer on the apparatus on the receiving side, or having the memory region that is the final destination of the data transfer registered and then sending the data to this memory region. When the length of the data to be sent does not exceed the threshold, sending to the pre-allocated buffer is selected, and the data transfer operation is completed by copying the received data from the pre-allocated buffer to the final destination of this transfer. In case the length of the data to be sent exceeds the threshold, the data is sent directly to the final destination of this transfer.